

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/602394 A  
Source: IFNU  
Date Processed by STIC: 5/16/5

***ENTERED***



IFWO

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/602,394A

DATE: 05/16/2005  
TIME: 14:09:46

Input Set : A:\UF-375.ST25.txt  
Output Set: N:\CRF4\05122005\J602394A.raw

3 <110> APPLICANT: Haskell-Luevano, Carrie  
 5 <120> TITLE OF INVENTION: Novel Melanocortin Receptor Peptide Template for the  
 Treatment of  
 6       Obesity  
 8 <130> FILE REFERENCE: UF-375  
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/602,394A  
 C--> 10 <141> CURRENT FILING DATE: 2003-06-23  
 10 <160> NUMBER OF SEQ ID NOS: 43  
 12 <170> SOFTWARE: PatentIn version 3.3  
 14 <210> SEQ ID NO: 1  
 15 <211> LENGTH: 10  
 16 <212> TYPE: PRT  
 17 <213> ORGANISM: Artificial Sequence  
 19 <220> FEATURE:  
 20 <223> OTHER INFORMATION: Chimeric peptide  
 23 <220> FEATURE:  
 24 <221> NAME/KEY: MISC\_FEATURE  
 25 <222> LOCATION: (2)..(9)  
 26 <223> OTHER INFORMATION: Cyclization of this peptide  
 28 <220> FEATURE:  
 29 <221> NAME/KEY: MISC\_FEATURE  
 30 <222> LOCATION: (5)..(5)  
 31 <223> OTHER INFORMATION: Xaa = DPhe  
 33 <400> SEQUENCE: 1  
 W--> 35 Tyr Cys Arg Phe Xaa Asn Ala Phe Cys Tyr  
 36 1               5               10  
 39 <210> SEQ ID NO: 2  
 40 <211> LENGTH: 10  
 41 <212> TYPE: PRT  
 42 <213> ORGANISM: Artificial Sequence  
 44 <220> FEATURE:  
 45 <223> OTHER INFORMATION: Chimeric peptide  
 48 <220> FEATURE:  
 49 <221> NAME/KEY: MISC\_FEATURE  
 50 <222> LOCATION: (2)..(9)  
 51 <223> OTHER INFORMATION: Cyclization of this peptide  
 53 <220> FEATURE:  
 54 <221> NAME/KEY: MISC\_FEATURE  
 55 <222> LOCATION: (9)..(9)  
 56 <223> OTHER INFORMATION: Xaa = diaminopropionic acid (Dpr)  
 58 <400> SEQUENCE: 2  
 W--> 60 Tyr Asp Ala Ala Ala Asn Ala Phe Xaa Tyr  
 61 1               5               10  
 64 <210> SEQ ID NO: 3

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Input Set : A:\UF-375.ST25.txt  
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65 <211> LENGTH: 10  
66 <212> TYPE: PRT  
67 <213> ORGANISM: Artificial Sequence  
69 <220> FEATURE:  
70 <223> OTHER INFORMATION: chimeric peptide  
73 <220> FEATURE:  
74 <221> NAME/KEY: MISC\_FEATURE  
75 <222> LOCATION: (2)..(9)  
76 <223> OTHER INFORMATION: cyclization of this peptide  
78 <220> FEATURE:  
79 <221> NAME/KEY: MISC\_FEATURE  
80 <222> LOCATION: (9)..(9)  
81 <223> OTHER INFORMATION: Xaa = diaminopropionic acid (Dpr)  
83 <400> SEQUENCE: 3  
W--> 85 Tyr Asp Arg Phe Phe Asn Ala Phe Xaa Tyr  
86 1 5 10  
89 <210> SEQ ID NO: 4  
90 <211> LENGTH: 10  
91 <212> TYPE: PRT  
92 <213> ORGANISM: Artificial Sequence  
94 <220> FEATURE:  
95 <223> OTHER INFORMATION: chimeric peptide  
98 <220> FEATURE:  
99 <221> NAME/KEY: MISC\_FEATURE  
100 <222> LOCATION: (2)..(9)  
101 <223> OTHER INFORMATION: cyclization of this peptide  
103 <220> FEATURE:  
104 <221> NAME/KEY: MISC\_FEATURE  
105 <222> LOCATION: (9)..(9)  
106 <223> OTHER INFORMATION: Xaa = diaminopropionic acid (Dpr)  
108 <400> SEQUENCE: 4  
W--> 110 Tyr Asp Trp Arg Phe Asn Ala Phe Xaa Tyr  
111 1 5 10  
114 <210> SEQ ID NO: 5  
115 <211> LENGTH: 10  
116 <212> TYPE: PRT  
117 <213> ORGANISM: Artificial Sequence  
119 <220> FEATURE:  
120 <223> OTHER INFORMATION: chimeric peptide  
123 <220> FEATURE:  
124 <221> NAME/KEY: MISC\_FEATURE  
125 <222> LOCATION: (2)..(9)  
126 <223> OTHER INFORMATION: cyclization of this peptide  
128 <220> FEATURE:  
129 <221> NAME/KEY: MISC\_FEATURE  
130 <222> LOCATION: (5)..(5)  
131 <223> OTHER INFORMATION: Xaa = DPhe  
133 <220> FEATURE:  
134 <221> NAME/KEY: MISC\_FEATURE

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Input Set : A:\UF-375.ST25.txt  
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135 <222> LOCATION: (9)..(9)  
136 <223> OTHER INFORMATION: Xaa = diaminopropionic acid (Dpr)  
138 <400> SEQUENCE: 5  
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141 1 5 10  
144 <210> SEQ ID NO: 6  
145 <211> LENGTH: 10  
146 <212> TYPE: PRT  
147 <213> ORGANISM: Artificial Sequence  
149 <220> FEATURE:  
150 <223> OTHER INFORMATION: /chimeric peptide  
153 <220> FEATURE:  
154 <221> NAME/KEY: MISC\_FEATURE  
155 <222> LOCATION: (2)..(9)  
156 <223> OTHER INFORMATION: /Cyclization of this peptide  
158 <220> FEATURE:  
159 <221> NAME/KEY: MISC\_FEATURE  
160 <222> LOCATION: (9)..(9)  
161 <223> OTHER INFORMATION: Xaa = diaminopropionic acid (Dpr)  
163 <400> SEQUENCE: 6  
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166 1 5 10  
169 <210> SEQ ID NO: 7  
170 <211> LENGTH: 10  
171 <212> TYPE: PRT  
172 <213> ORGANISM: Artificial Sequence  
174 <220> FEATURE:  
175 <223> OTHER INFORMATION: /chimeric peptide  
178 <220> FEATURE:  
179 <221> NAME/KEY: MISC\_FEATURE  
180 <222> LOCATION: (2)..(9)  
181 <223> OTHER INFORMATION: /Cyclization of this peptide  
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184 <221> NAME/KEY: MISC\_FEATURE  
185 <222> LOCATION: (3)..(3)  
186 <223> OTHER INFORMATION: Xaa = DPhe  
188 <220> FEATURE:  
189 <221> NAME/KEY: MISC\_FEATURE  
190 <222> LOCATION: (9)..(9)  
191 <223> OTHER INFORMATION: Xaa = diaminopropionic acid (Dpr)  
193 <400> SEQUENCE: 7  
W--> 195 Tyr Asp Xaa Arg Trp Asn Ala Phe Xaa Tyr  
196 1 5 10  
199 <210> SEQ ID NO: 8  
200 <211> LENGTH: 11  
201 <212> TYPE: PRT  
202 <213> ORGANISM: Artificial Sequence  
204 <220> FEATURE:  
205 <223> OTHER INFORMATION: /chimeric peptide

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Input Set : A:\UF-375.ST25.txt  
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208 <220> FEATURE:  
209 <221> NAME/KEY: MISC\_FEATURE  
210 <222> LOCATION: (2)..(10)  
211 <223> OTHER INFORMATION: Cyclization of this peptide  
213 <220> FEATURE:  
214 <221> NAME/KEY: MISC\_FEATURE  
215 <222> LOCATION: (10)..(10)  
216 <223> OTHER INFORMATION: Xaa = diaminopropionic acid (Dpr)  
218 <400> SEQUENCE: 8  
W--> 220 Tyr Asp His Arg Phe Phe Asn Ala Phe Xaa Tyr  
221 1 5 10  
224 <210> SEQ ID NO: 9  
225 <211> LENGTH: 11  
226 <212> TYPE: PRT  
227 <213> ORGANISM: Artificial Sequence  
229 <220> FEATURE:  
230 <223> OTHER INFORMATION: chimeric peptide  
233 <220> FEATURE:  
234 <221> NAME/KEY: MISC\_FEATURE  
235 <222> LOCATION: (2)..(10)  
236 <223> OTHER INFORMATION: Cyclization of this peptide  
238 <220> FEATURE:  
239 <221> NAME/KEY: MISC\_FEATURE  
240 <222> LOCATION: (10)..(10)  
241 <223> OTHER INFORMATION: Xaa = diaminopropionic acid (Dpr)  
243 <400> SEQUENCE: 9  
W--> 245 Tyr Asp His Phe Arg Trp Asn Ala Phe Xaa Tyr  
246 1 5 10  
249 <210> SEQ ID NO: 10  
250 <211> LENGTH: 11  
251 <212> TYPE: PRT  
252 <213> ORGANISM: Artificial Sequence  
254 <220> FEATURE:  
255 <223> OTHER INFORMATION: chimeric peptide  
258 <220> FEATURE:  
259 <221> NAME/KEY: MISC\_FEATURE  
260 <222> LOCATION: (2)..(10)  
261 <223> OTHER INFORMATION: Cyclization of this peptide  
263 <220> FEATURE:  
264 <221> NAME/KEY: MISC\_FEATURE  
265 <222> LOCATION: (4)..(4)  
266 <223> OTHER INFORMATION: Xaa = DPhe  
268 <220> FEATURE:  
269 <221> NAME/KEY: MISC\_FEATURE  
270 <222> LOCATION: (10)..(10)  
271 <223> OTHER INFORMATION: Xaa = diaminopropionic acid (Dpr)  
273 <400> SEQUENCE: 10  
W--> 275 Tyr Asp His Xaa Arg Trp Asn Ala Phe Xaa Tyr  
276 1 5 10

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/602,394A

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Input Set : A:\UF-375.ST25.txt

Output Set: N:\CRF4\05122005\J602394A.raw

279 <210> SEQ ID NO: 11  
280 <211> LENGTH: 18  
281 <212> TYPE: PRT  
282 <213> ORGANISM: Artificial Sequence  
284 <220> FEATURE:  
285 <223> OTHER INFORMATION: chimeric peptide  
288 <220> FEATURE:  
289 <221> NAME/KEY: MISC\_FEATURE  
290 <222> LOCATION: (1)..(1)  
291 <223> OTHER INFORMATION: Xaa = acetyl (Ac)  
293 <220> FEATURE:  
294 <221> NAME/KEY: MISC\_FEATURE  
295 <222> LOCATION: (5)..(5)  
296 <223> OTHER INFORMATION: Xaa = norleucine (Nle)  
298 <220> FEATURE:  
299 <221> NAME/KEY: MISC\_FEATURE  
300 <222> LOCATION: (7)..(13)  
301 <223> OTHER INFORMATION: Cyclization of this pentide  
303 <220> FEATURE:  
304 <221> NAME/KEY: MISC\_FEATURE  
305 <222> LOCATION: (14)..(14)  
306 <223> OTHER INFORMATION: Xaa = diaminopropionic acid (Dpr)  
308 <400> SEQUENCE: 11  
W--> 310 Xaa Ser Tyr Ser Xaa Tyr Asp Arg Phe Phe Asn Ala Phe Xaa Tyr Lys  
311 1 5 10 15  
314 Pro Val  
318 <210> SEQ ID NO: 12  
319 <211> LENGTH: 14  
320 <212> TYPE: PRT  
321 <213> ORGANISM: Artificial Sequence  
323 <220> FEATURE:  
324 <223> OTHER INFORMATION: chimeric peptide  
327 <220> FEATURE:  
328 <221> NAME/KEY: MISC\_FEATURE  
329 <222> LOCATION: (1)..(1)  
330 <223> OTHER INFORMATION: Xaa = acetyl (Ac)  
332 <220> FEATURE:  
333 <221> NAME/KEY: MISC\_FEATURE  
334 <222> LOCATION: (5)..(5)  
335 <223> OTHER INFORMATION: Xaa = norleucine (Nle)  
337 <400> SEQUENCE: 12  
W--> 339 Xaa Ser Tyr Ser Xaa Glu His Ala Ala Ala Gly Lys Pro Val  
340 1 5 10  
343 <210> SEQ ID NO: 13  
344 <211> LENGTH: 13  
345 <212> TYPE: PRT  
346 <213> ORGANISM: Artificial Sequence  
348 <220> FEATURE:  
349 <223> OTHER INFORMATION: chimeric peptide

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/16/2005  
PATENT APPLICATION: US/10/602,394A TIME: 14:09:47

Input Set : A:\UF-375.ST25.txt  
Output Set: N:\CRF4\05122005\J602394A.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 5  
Seq#:2; Xaa Pos. 9  
Seq#:3; Xaa Pos. 9  
Seq#:4; Xaa Pos. 9  
Seq#:5; Xaa Pos. 5,9  
Seq#:6; Xaa Pos. 9  
Seq#:7; Xaa Pos. 3,9  
Seq#:8; Xaa Pos. 10  
Seq#:9; Xaa Pos. 10  
Seq#:10; Xaa Pos. 4,10  
Seq#:11; Xaa Pos. 1,5,14  
Seq#:12; Xaa Pos. 1,5  
Seq#:13; Xaa Pos. 1,5  
Seq#:14; Xaa Pos. 1,5  
Seq#:15; Xaa Pos. 1,5  
Seq#:16; Xaa Pos. 1,5,8  
Seq#:17; Xaa Pos. 1,5,9  
Seq#:18; Xaa Pos. 1,5,10  
Seq#:19; Xaa Pos. 1,2  
Seq#:20; Xaa Pos. 1,2  
Seq#:21; Xaa Pos. 1,2,5  
Seq#:22; Xaa Pos. 1,2,6  
Seq#:23; Xaa Pos. 1,2,7  
Seq#:24; Xaa Pos. 4,10  
Seq#:25; Xaa Pos. 10  
Seq#:26; Xaa Pos. 4,10  
Seq#:27; Xaa Pos. 4,10  
Seq#:28; Xaa Pos. 4,10  
Seq#:29; Xaa Pos. 4,10  
Seq#:30; Xaa Pos. 3,4,10  
Seq#:31; Xaa Pos. 10  
Seq#:32; Xaa Pos. 4,10  
Seq#:33; Xaa Pos. 4,10  
Seq#:34; Xaa Pos. 4,10  
Seq#:35; Xaa Pos. 4,10  
Seq#:36; Xaa Pos. 4,10  
Seq#:37; Xaa Pos. 4,10  
Seq#:38; Xaa Pos. 4,10  
Seq#:39; Xaa Pos. 4,6,10  
Seq#:40; Xaa Pos. 4,6,10  
Seq#:41; Xaa Pos. 4,6,10  
Seq#:42; Xaa Pos. 4,6,10  
Seq#:43; Xaa Pos. 4,9,10

VERIFICATION SUMMARY  
PATENT APPLICATION: US/10/602,394A

DATE: 05/16/2005  
TIME: 14:09:47

Input Set : A:\UF-375.ST25.txt  
Output Set: N:\CRF4\05122005\J602394A.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:35 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:60 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
L:220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
L:245 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
L:310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:339 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:389 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0  
L:414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
L:444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0  
L:474 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0  
L:504 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0  
L:534 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0  
L:564 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0  
L:599 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0  
L:634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0  
L:669 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0  
L:699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0  
L:724 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0  
L:754 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0  
L:784 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0  
L:814 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0  
L:844 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0  
L:879 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0  
L:904 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0  
L:934 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0  
L:964 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0  
L:994 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0  
L:1024 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0  
L:1054 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0  
L:1084 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0  
L:1114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0  
L:1149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0  
L:1184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0  
L:1219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0  
L:1254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0  
L:1289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0